

# PATENT COOPERATION TREATY

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From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

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## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference <b>304851wo/prs/gjs/sr</b>		Date of mailing (day/month/year) <b>07-06-2005</b>
<b>FOR FURTHER ACTION</b> See paragraph 2 below		
International application No. <b>PCT/IB 2004/004298</b>	International filing date (day/month/year) <b>29-12-2004</b>	Priority date (day/month/year) <b>30-12-2003</b>
International Patent Classification (IPC) or both national classification and IPC <b>H04Q 7/32, H04Q 7/38, G01S 5/00, G01S 1/00</b>		
Applicant <b>NOKIA CORPORATION ET AL</b>		

1. This opinion contains indications relating to the following items:
  - ☒ Box No. I Basis of the opinion
  - ☐ Box No. II Priority
  - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Box No. IV Lack of unity of invention
  - ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☐ Box No. VI Certain documents cited
  - ☐ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application
  
2. **FURTHER ACTION**  
 If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.  
 If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
 For further opinions, see Form PCT/ISA/220.
  
3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  <b>Elisabet Åselius /itw</b> Telephone No. +46 8 782 25 00
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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/IB 2004/004298

**Box No. I      Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language, \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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International application No.

PCT/IB 2004/004298

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-29	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-29	NO
Industrial applicability (IA)	Claims	1-29	YES
	Claims		NO

2. Citations and explanations:

The claimed invention relates to a communications device, where a mobile communications device and an adjacent GPS device communicate location and timing information via a wireless transceiver or a physical connector.

Documents cited in the International Search Report:

D1: US 5945944 A

D2: Syrjarinne J: "Time recovery through fusion of inaccurate network timing assistance with GPS measurements" Proceedings of the Third International Conference on Information Fusion, 2000. FUSION 2000. July10-13, 2000, Piscataway, NJ, USA, IEEE

D3: US 20030221010 A1

D4: US 6609005 B1

D1 reveals a mobile communications device which comprises a wireless transceiver with means for receiving at least one of timing information and location information from a cellular communications network. This information is passed on to a GPS device, integrated with the wireless transceiver. The GPS provides positional estimates, (abstract; col.2 lines 7-26; figs. 2&3).

D2 discloses how timing information from a cellular network aids positioning accuracy in a GPS application, (sections 1 and 6; abstract).

Neither D1 nor D2 reveals the fact that a wireless transceiver transmits the information between respective cellular transceiver and an adjacent GPS receiver. That the cellular transceiver has a cable connection to the GPS device is implicit in D1 and D2.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of Box V

The problem concerning how to transfer timing or location information to a GPS receiver which is not integrated but adjacent to the cellular transceiver must be solved.

The examiner considers that a person skilled in the art easily realises that a second wireless transceiver, preferably a short-range transceiver, or a cable connection would do the trick. Thus, claims 1-9 and 20-27 lack an inventive step.

However, connecting a cellular phone with a GPS via a second wireless transceiver, (Bluetooth) is known from document D3, (paragraph 0708). Since the document deals with information transfer, document D1 and D3, or document D2 and D3 relates to the same technical field. Consequently, claims 1-9 and claims 15-22 lack an inventive step.

D4 reveals how a positional estimate is displayed to a user on a display of a mobile device and transmitted over the cellular network, (abstract; col.5 lines 8-23; figs.1, 2, 5&8). The positional estimates may be stored in a memory, (col.6 lines 19-37). Accordingly, claims 10-14 and 28-29 also lack an inventive step.